

What is claimed is:

1. An avionics device, comprising;  
a processor;  
5 a memory in communication with the processor;  
a receiver to receive radio signals from a remote transmitter, wherein said radio  
signals include digital data representing update information; and  
wherein the device can update information resident on the device based upon the  
update information received.

10

2. The device of claim 1, wherein the device can update global positioning system  
application software resident on the device.

15

3. The device of claim 2, wherein the device can update navigational data resident  
on the device.

4. The device of claim 3, wherein the device can update navaid data resident on the  
device.

20

5. The device of claim 1, wherein the device can update operating system  
information resident on the device.

6. The device of claim 1, wherein the receiver can receive radio frequencies in the  
range of 2300 and 2400 MHz.

25

7. The device of claim 1, wherein the receiver can receive radio frequencies in the  
range of 500 and 1500 MHz.

8. The device of claim 1, wherein the receiver includes an ADS-B receiver.

30

9. The device of claim 1, wherein the receiver includes a UAT datalink receiver.

10. An aviation navigation system, comprising;  
a remote transmitter for transmitting, via a radio signal, digital data indicative of software;  
5 a receiver to receive the radio signal; and  
a relay means operable to relay the radio signal to the receiver; and  
an avionics device in communication with the receiver and operable to store the software on the device.
- 10 11. The system of claim 10, wherein the relay means includes a transceiver positioned on the satellite.
12. The system of claim 10, wherein the relay means includes a transceiver positioned on a land based structure.
- 15 13. The system of claim 10, wherein the receiver includes a receiver that is located remotely from the avionics device.
14. The system of claim 10, wherein the update information includes update  
20 navigational application information.
15. The system of claim 10, wherein the receiver includes an ADS-B receiver.
16. The system of claim 10, wherein the receiver includes a UAT datalink receiver.
- 25 17. A method for receiving data updates with an avionics device, comprising:  
receiving update information in the form of digital data, via a radio signal from a remote transmitter, with an avionics device;  
interpreting the signal to identify information to be updated; and  
30 updating existing information resident on the avionics device with the update information.

18. The method of claim 17, wherein receiving a radio signal from a remote transmitter includes receiving a radio signal transmitted from a satellite.
- 5 19. The method of claim 17, wherein receiving a radio signal from a remote transmitter includes receiving a radio signal transmitted from a land based remote transmitter.
20. The method of claim 17, wherein receiving update information includes receiving  
10 information updating geographic terrain map data.
21. The method of claim 17, wherein receiving update information includes receiving information updating navaid map data.
- 15 22. The method of claim 17, wherein receiving update information includes receiving information updating airport map data.
23. The method of claim 17, wherein receiving update information includes receiving  
20 information updating avionics device operating system data.
24. The method of claim 17, wherein receiving update information includes receiving information updating global positioning system data.
25. The method of claim 17, wherein receiving update information includes receiving  
25 information with an ADS-B receiver.
26. The method of claim 17, wherein receiving update information includes receiving information with a UAT datalink receiver.
- 30 27. A method for delivering data updates to an avionics device, comprising:  
identifying information to be transmitted as an update to an avionics device;

packaging the information for transmission; and  
transmitting a radio signal via a remote transmitter having packaged update  
information therein to a number of avionics devices.

5 28. The method of claim 27, wherein the method further includes providing an  
authorization code for accessing the radio signal.

29. The method of claim 28, wherein providing an authorization code includes  
providing an authorization code to the device that allows the avionics device to receive  
10 the update information.

30. The method of claim 29, wherein providing an authorization code includes  
providing an authorization code within the radio signal that allows the avionics device to  
receive the update information.

15

31. The method of claim 28, wherein providing an authorization code includes  
providing an authorization code to the device that allows the remote transmitter to  
transmit the update information.

20 32. The method of claim 27, wherein transmitting a radio signal having update  
information therein includes transmitting a radio signal at a private frequency restricted to  
devices authorized to access the frequency.

33. The method of claim 27, wherein the method further includes receiving the radio  
25 signal with an ADS-B receiver.

34. The method of claim 27, wherein the method further includes receiving the radio  
signal with a UAT datalink receiver.

30 35. A computer readable medium having a set of computer readable instructions, the  
set of computer readable instructions comprising instructions for:

receiving data, in the form of a radio signal from a remote transmitter, at an  
avionics device; and  
interpreting the data to update the executable instructions on the avionics device.

5

36. The computer readable medium of claim 35, wherein receiving data includes receiving software.

37. The computer readable medium of claim 36, wherein receiving software includes  
10 receiving application software.

38. The computer readable medium of claim 35, wherein receiving data includes receiving update information.

15 39. The computer readable medium of claim 35, wherein receiving data includes receiving data in the form of radio signals transmitted in radio frequencies in the range of 2300 and 2400 MHz.

40. The computer readable medium of claim 35, wherein receiving data includes  
20 receiving data in the form of radio signals transmitted in radio frequencies in the range of 500 and 1500 MHz.

41. The computer readable medium of claim 35, wherein receiving data includes receiving data with an ADS-B receiver.

25

42. The computer readable medium of claim 35, wherein receiving data includes receiving data with a UAT datalink receiver.